

# lysis



your content → your viewer

# Lysis DTV Video Servers



## Broadcast of digital TV services

For cable, satellite, terrestrial and telecom operators

Lysis has a leading digital video broadcasting solution for the distribution of high quality content over broadcast and broadband networks.

## Fast, flexible and highly scalable

Providing rich media content in real time to consumers over cable, satellite, terrestrial and telecom networks is a formidable challenge. The key factors are broadband access and viewing continuity to millions of subscribers. Lysis, together with leading specialist partners, has years of experience in providing digital TV solutions to operators around the world, enabling them to carry out the challenge to perfection. With Lysis DTV Video Servers coupled to Lysis iDTV Content Management System, you are ready to successfully implement any kind of Pay-TV, PPV, NVOD or VOD services.

All Lysis DTV equipment runs on standard IT components (hardware from Lysis partners), so that they constantly benefit from improvements to servers and storage solutions. The DTV Video Servers are highly scalable, from a few to thousands of video streams. So you can start small and grow – simply by adding servers and storage!

## For content acquisition and storage

DTV Provisioning Servers are what you are looking for to handle the acquisition, concatenation and storage of all digital content planned for broadcast.

DTV Provisioning Servers allow you to face the operational challenge of preparing and managing digital assets efficiently. DTV provisioning services ensure that all encoded material is acquired, stored, retrieved and distributed with no alteration to the original signal's quality.

Our DTV Provisioning Servers can handle MPEG-1, MPEG-2 encoding and compression format. Audio/video content acquisition is done with real-time encoders using DVB ASI input ports or via a file copy operation. Large amounts of on-line disk storage capability allow you to have several thousand hours of content available in MPEG-2 format.

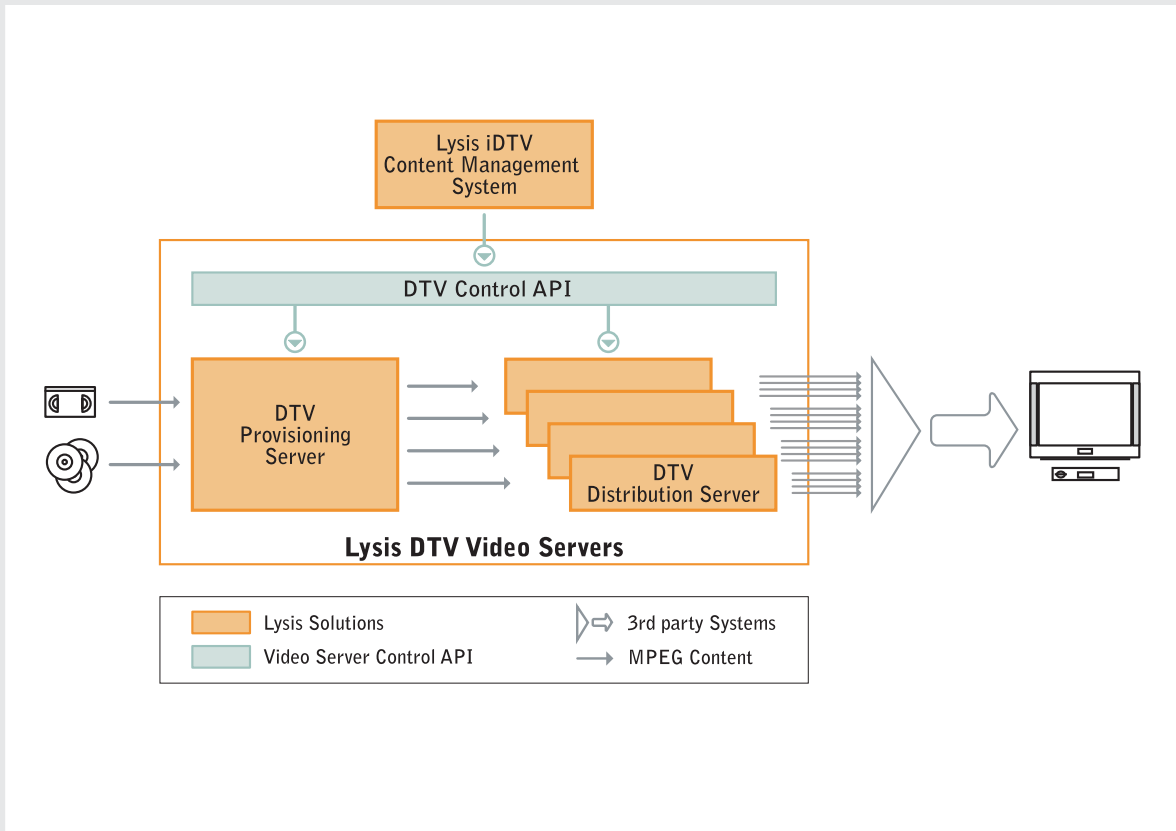
## For broadcast services

DTV Distribution Servers mix and match movies, live programs, previews, clips, advertisements and other data into seamless digital TV streams, using DVB interfaces. Our systems broadcast today's digital TV programs to viewers all around the world.

DTV Distribution Servers are based on key industry standards such as MPEG-2 compression. Typical features include video delay (from a few seconds to several hours), PPV and NVOD streaming. The internal playlist scheduler is compatible with most existing automation systems, such as Louth VDCP, and is capable of running autonomously in the case of automation failure.

Our DTV Distribution Servers for broadcast are highly scalable, from one to several hundred output streams, from a few to several thousand hours of storage. The servers incorporate unmatched CPU and I/O bandwidth technology and their reliability is proven by more than six years of continuous operation. Redundant power supplies and so-called RAID technology (Redundant Array of Independent Disks) provide highly fault-tolerant systems.





## Product Features

### → Performance

- ⇨ High-performance server architecture based on 64-bit microprocessors
- ⇨ High-speed CPU-memory and storage interconnects
- ⇨ High bandwidth data access using Ultra3 SCSI and Fibre Channel technology

### → Reliability and Availability

- ⇨ Built-in broadcast scheduler running autonomously
- ⇨ N+1 and 1+1 server redundancy options
- ⇨ High level of availability through redundant CPUs, storage (RAID-5), and data paths
- ⇨ Hot-plug power supplies, disks and PCI options

### → Scalability

- ⇨ Designed to maximize memory potential and storage capacity
- ⇨ Flexible storage configuration with capacities of up to several terabytes of compressed MPEG-2 video
- ⇨ Hardware can be added incrementally to increase number of broadcast channels

### → System Control

- ⇨ Fully integrated with Lysis iDTV Content Management System
- ⇨ Open API to manage asset inventory, video recording and program scheduling
- ⇨ Support of Louth VDCP (Video Disk Control Protocol) commands

### → Broadcast Capabilities

- ⇨ Playout of MPEG transport streams (SPTS/MPTS) to DVB-ASI outputs
- ⇨ Video broadcast based on IP Multicast streaming
- ⇨ Data broadcast for cyclic output of content
- ⇨ Software multiplexing on ASI outputs
- ⇨ MPEG-2 splicing during playback

### → Recording Capabilities

- ⇨ Frame accurate recording of MPEG-2 SPTS received on DVB-ASI inputs
- ⇨ Control of third-party encoders and VTRs
- ⇨ Real-time monitoring of ongoing record (play while record)

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